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🔍 Title: **JP08217561A2: LIGHT-WEIGHT CALCIUM SILICATE FORMED BODY AND ITS PRODUCTION**

🔍 Derwent Title: Lightweight calcium silicate moulding for building materials - has specified porosity, interlayer strength and mean line surface roughness [\[Derwent Record\]](#)

🔍 Country: **JP Japan**

🔍 Kind: **A**

🔍 Inventor: **ABE NOBUHIKO;
MONZEN HIROBUMI;**

🔍 Assignee: **CHICHIBU ONODA CEMENT CORP**
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🔍 Published /
Filed: **1996-08-27 / 1995-02-13**

🔍 Application
Number: **JP1995000047751**

🔍 IPC Code: **C04B 38/00; C04B 28/18; C04B 38/08; C04B 40/02;
C04B 28/18;**

🔍 ECLA Code: **C04B20/00D2; C04B28/18C;**

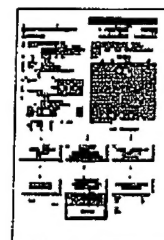
🔍 Priority
Number: **1995-02-13 JP1995000047751**

🔍 Abstract: **PURPOSE:** To improve the resistance to freezing damage to a formed body by forming the formed body having a specified bulk density, predicted closed cell rate, interlayer strength and average linear surface roughness.

CONSTITUTION: A material contg. 15-40wt.% portland cement, 10-20% slaked lime, 10-35% diatomaceous earth and 15-55% high-strength closed hollow balloons such as a fly ash balloon having high contents of active silica and aluminum, having a pozzolana action and having $\leq 200\mu\text{m}$ diameter is used as the main raw material, and the CaO-to-SiO₂ molar ratio is controlled to 0.45-0.80. To the main raw material 5-7% pulp slurry, a reinforcing fiber such as carbon fiber and a thickener such as methylcellulose are added to form a slurry, and the slurry is dehydrated and press-formed. The formed body is allowed to stand for $\geq 24\text{hr}$, then cured and subjected to a hydrothermal synthesis to obtain a lightweight calcium silicate formed body having 0.4-0.9 bulk density, $\geq 15\%$ predicted closed cell rate shown by the expression (porosity = $1 - \text{bulk density}/\text{true sp.gr.}$), $\geq 5\text{kgf/cm}^2$ interlayer strength and $\leq 10\mu\text{m}$ average linear surface roughness according to JIS B0601.

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🔍 Family: **None**




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| PDF | Patent | Pub.Date | Inventor | Assignee | Title |
|---|---------------------------|------------|----------------------|---|--|
|  | US6572697 | 2003-06-03 | Gleeson; James A. | James Hardie Research Pty Limited | Fiber cement building materials with low density additives |

Other Abstract
Info:

CHEMABS 125(24)307361G CAN125(24)307361G DERABS C96-439366 DERC96-439366



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